Specification

Nominal Basket Diameter	15.0", 381mm
Nominal Impedence*	8 ohms
Power Rating**	450W
Usable Frequency Range	40Hz-1.5kHz
Sensitivity***	98.4
Magnet Weight	11oz
Gap Height	.37",9.27mm
Voice Coil Diameter	3.0",76.2mm

Theile & Small Parameters

Resonance (Fs)	43.65Hz
DC Resistance (Re)	5.5
Coil Inductance (Le)	.93mH
Mechanical Q (Qms)	8.97
Electromagnetic Q (Qes)	.48
Total Q (Qts)	.46
Compliance Eqiv Vol (Vas)	150.89 ltr./5.33cuft
Peak Diaphragm Displacement Vol (Vd)	845.90cc
Compliance Susp (Cms)	.14mm/N
BL Product (BL)	17.0 T-M
Moving Mass inc. Airload (Mms)	93.4 grams
Efficiency BandWidth Product (EBP)	90.0
Maximum Linear Excursion (Xmax)	9.6mm
Active Piston Area (Sd)	881.1cm2
Maximum Mechanical Limit (Xlim)	17.0mm

Mounting Information

Recommended Enclosure Volume

Sealed		- liters / .0-.0 cuft
Vented		99-195 liters / 3.5-6.9 cufl
Driver Volume Displaced		in3, ltr.
Overall Diameter(inches)		15.32", 389.13mm
Major Diameter(inches)		.00", .00mm
Minor Diameter(inches)		.00", .00mm
Baf Hole Dia In.		14.03", 356.36mm
Front Gasket:	Yes	fitted as standard
Rear Gasket:	Yes	fitted as standard
Mount Holes Diameter(inches)		.28", 7.11mm
Mount Hole BCD (inches)		14.56", 369.82mm
Depth (inches)		7.25", 184.15mm
Net Wt Lbs.		8.60 lbs, 3.90 kg
Ship Wt Lbs.		10.70 lbs, 4.85 kg

Materials

Former Material	Kapton
Voice Coil	Copper
Magnet Material	Neo
Special Core Features	Vented
Vented Motor	Vented core
Basket Material	Aluminum
Cone Description	Treated Paper / Sealed Cloth Edge
Dust Cap Material	Treated Paper

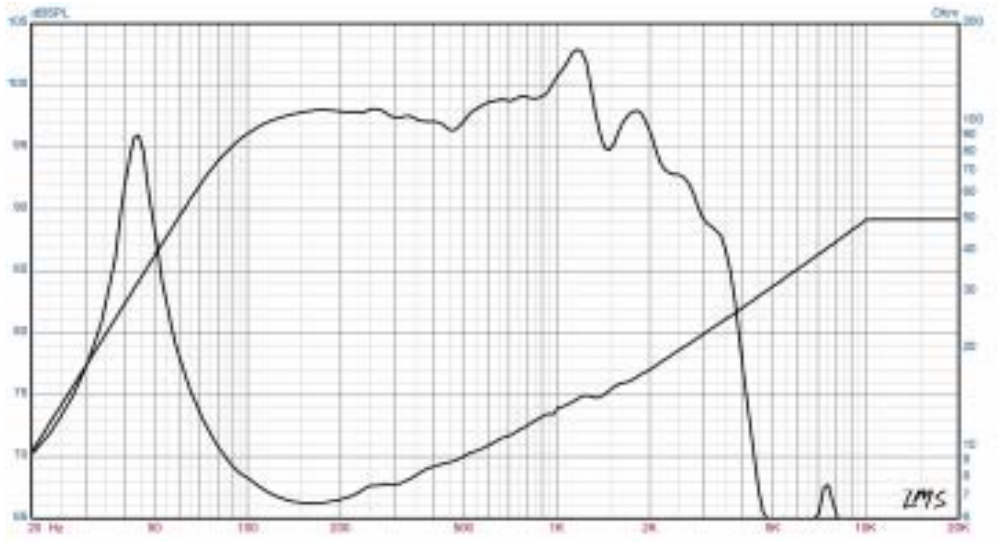
EMINENCE®
The Art and Science of Sound

KappaLite3015LF

Great for small vented PA subs or for use in horn loaded subs. Can be used for bass guitar as well.

Coloration:

Genre:



*Please inquire about alternative impedances.
**Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free air, non-temperature controlled environment.
***The average output across the usable frequency range when applying 1W/1M into the nominal impedance..Ie: 2.83V/8ohms, 4V/16ohms.
Eminence response curves are measured under the followng conditions. All speakers are tested at 1W/1M using a variety of test set-ups for the appropriate
impedence | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2ft. X 2ft. Baffle is built into the wall with the speakermounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

KappaLite3015LF 2x15 PA Subwoofer System

By Jerry McNutt, Eminence Speaker LLC
Thermally Limited to 900 Watts; F3 of 41 Hz. Use a steep high pass filter set to 35 Hz.

EMINENCE

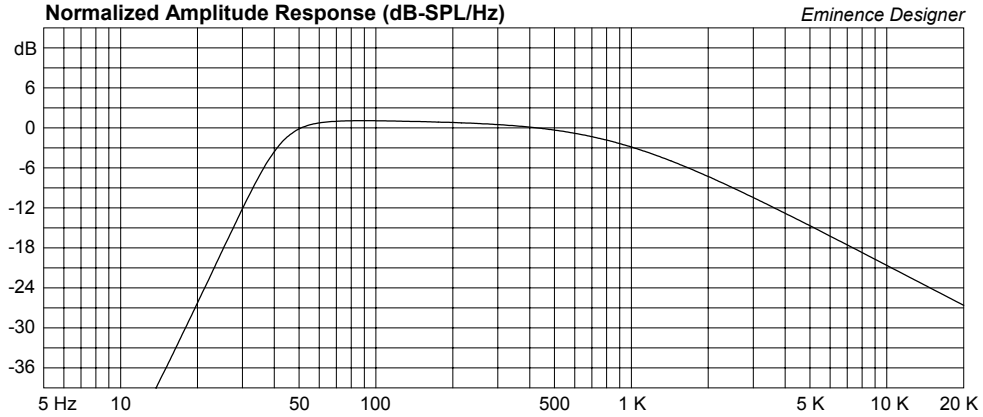
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 12 cu.ft
V(total) = 13.51 cu.ft
Fb = 44 Hz
QL = 7
F3 = 41.01 Hz
Fill = minimal
--Vents--
No. of Vents = 6
Vent shape = round
Vent ends = one flush
Dv = 6 in
Lv = 11.08 in

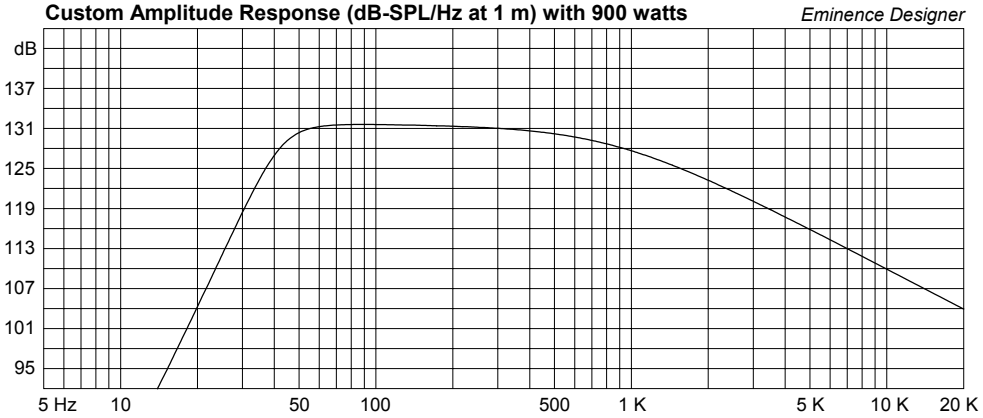
Driver Properties

--Description--
Name: KappaLite3015LF
Type: Standard one-way driver
Comment: Updated Sept 2009
--Configuration--
No. of Drivers = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 43.65 Hz
Qms = 8.97
Vas = 5.329 cu.ft [10.66]
Xmax = 0.378 in
Sd = 136.6 sq.in [273.1]
Qes = 0.48
Re = 5.47 ohms [2.735]
Le = 0.93 mH [0.465]
Z = 8 ohms [4]
Pe = 450 watts [900]

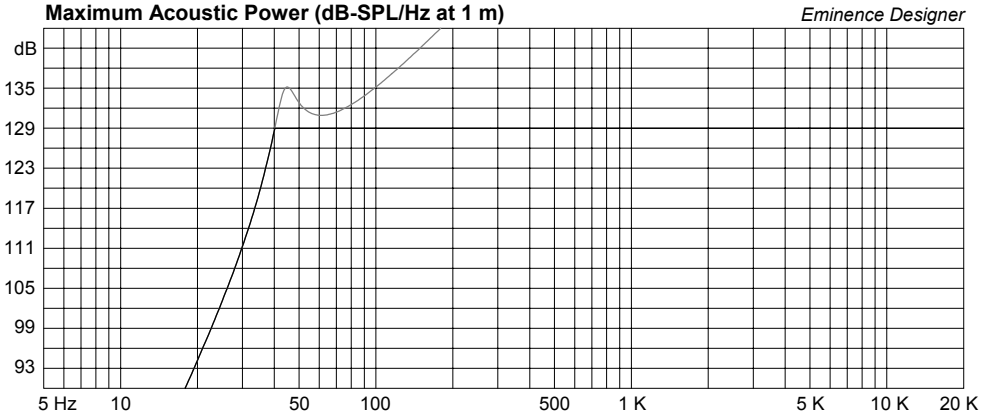
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 900 watts *Eminence Designer*



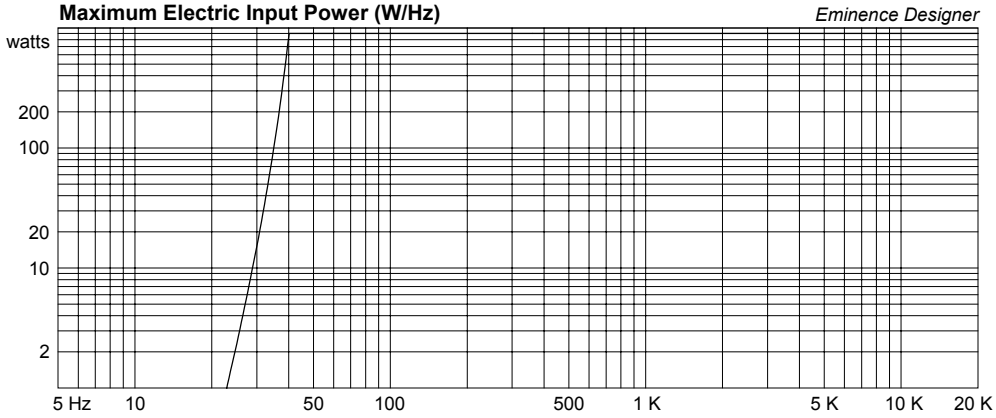
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: KappaLite3015DoubleTroubleSubSystemII900Watts.bb6

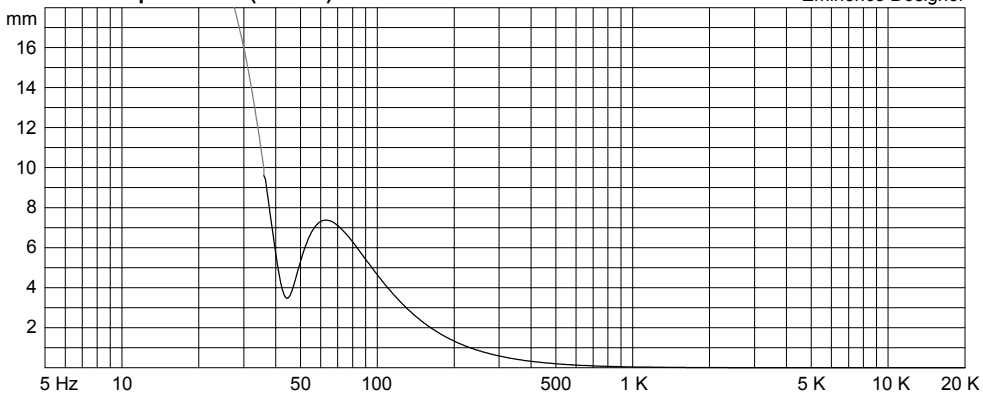
Maximum Electric Input Power (W/Hz)

Eminence Designer



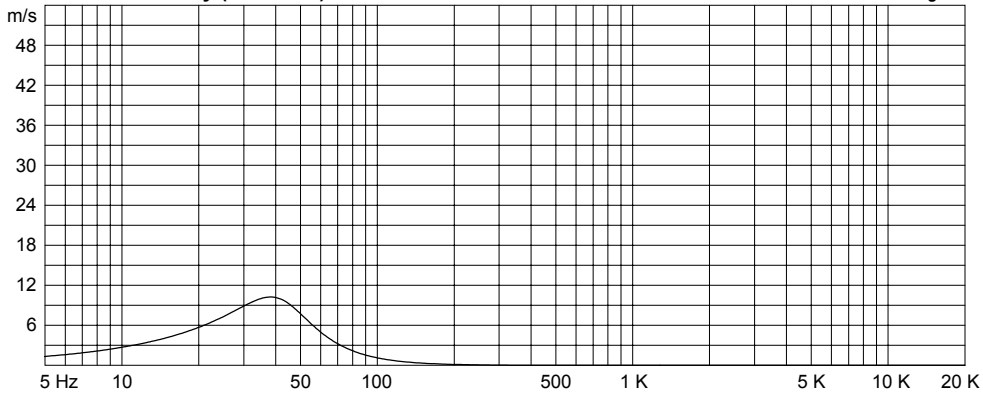
Cone Displacement (mm/Hz) with 900 watts

Eminence Designer



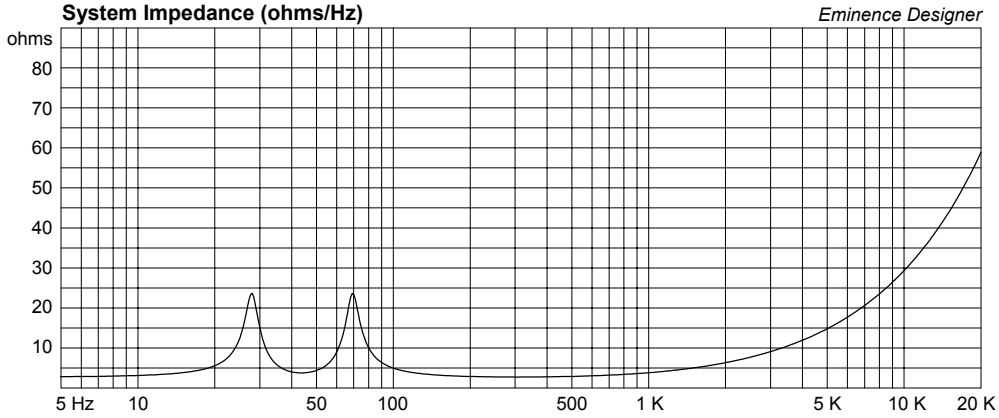
Vent Air Velocity (m/sec/Hz) with 900 watts

Eminence Designer



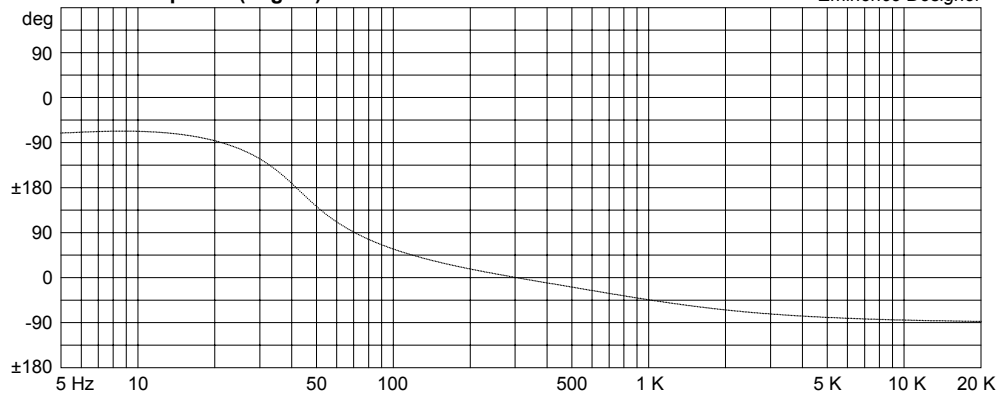
System Impedance (ohms/Hz)

Eminence Designer



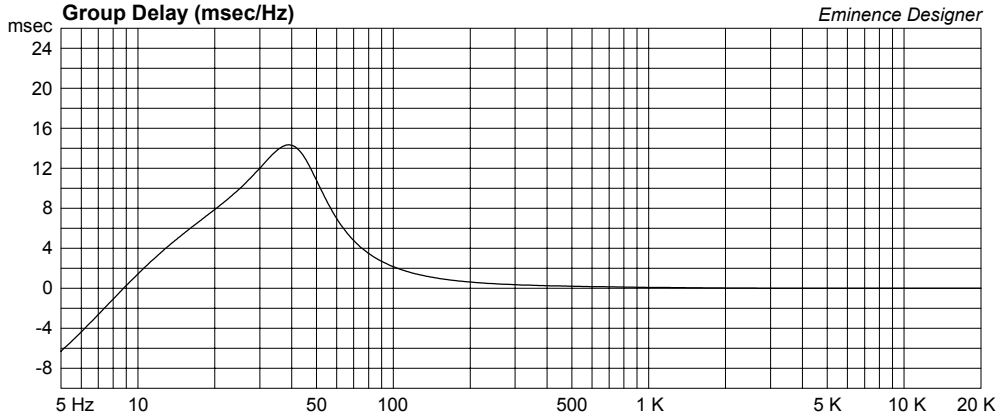
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KappaLite 3015LF Med Vented PA Subwoofer Cabine

By Jerry McNutt, Eminence Speaker LLC
Thermally Limited to 450 Watts; F3 of 47 Hz. Use a steep high pass filter set to 35 Hz.

EMINENCE

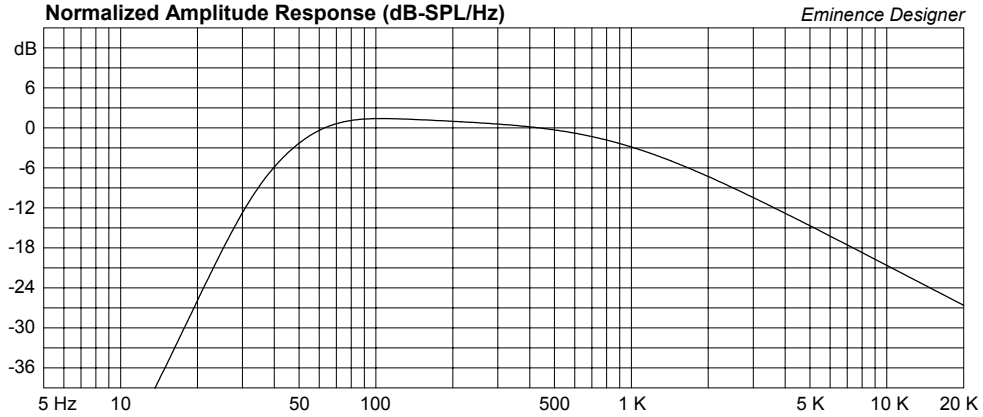
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Cube
--Box Parameters--
Vb = 4.091 cu.ft
V(total) = 4.672 cu.ft
Fb = 44 Hz
QL = 7
F3 = 47.46 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 12.13 in

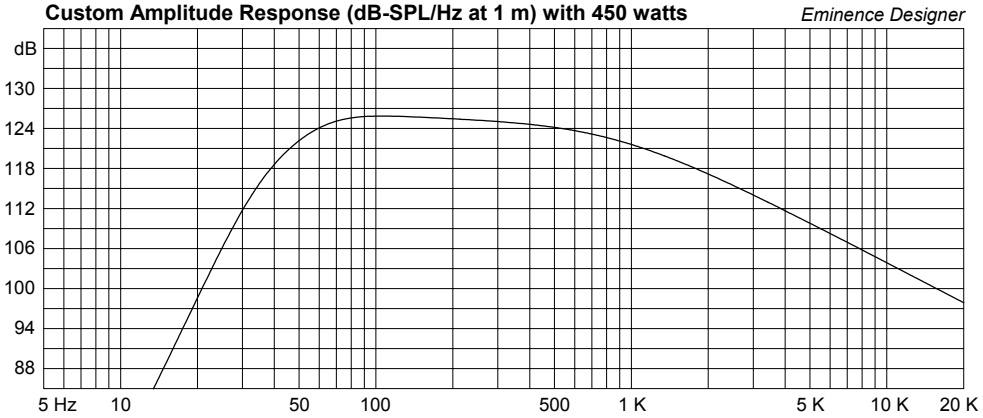
Driver Properties

--Description--
Name: KappaLite 3015LF
Type: Standard one-way driver
Comment: Updated Sept 2009
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 43.65 Hz
Qms = 8.97
Vas = 5.329 cu.ft
Xmax = 0.378 in
Sd = 136.6 sq.in
Qes = 0.48
Re = 5.47 ohms
Le = 0.93 mH
Z = 8 ohms
Pe = 450 watts

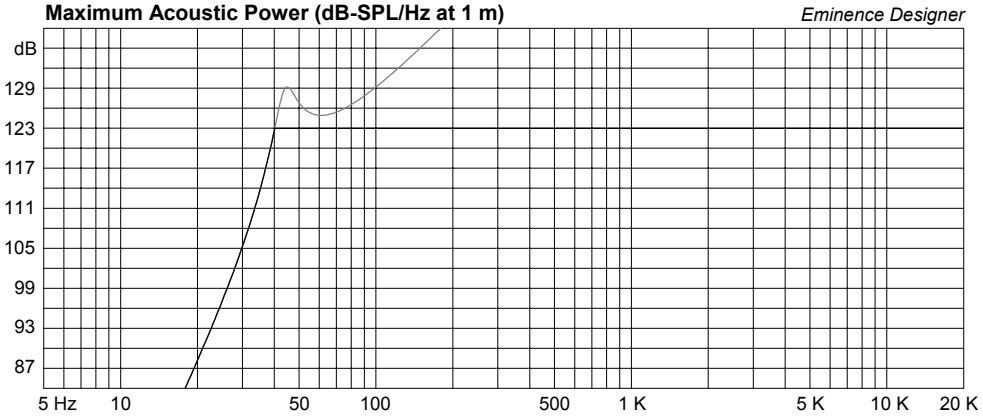
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



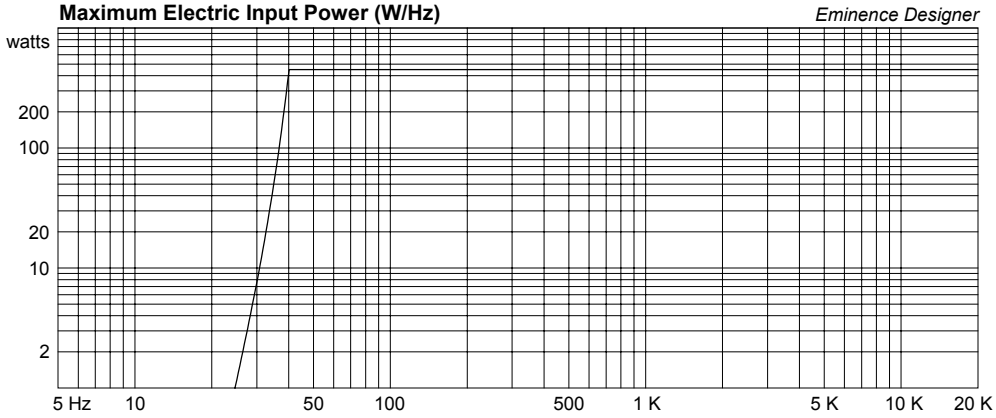
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts *Eminence Designer*



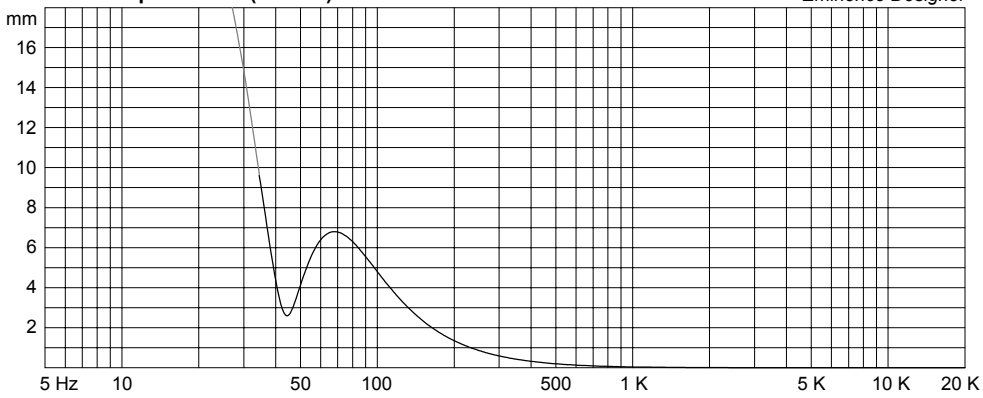
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



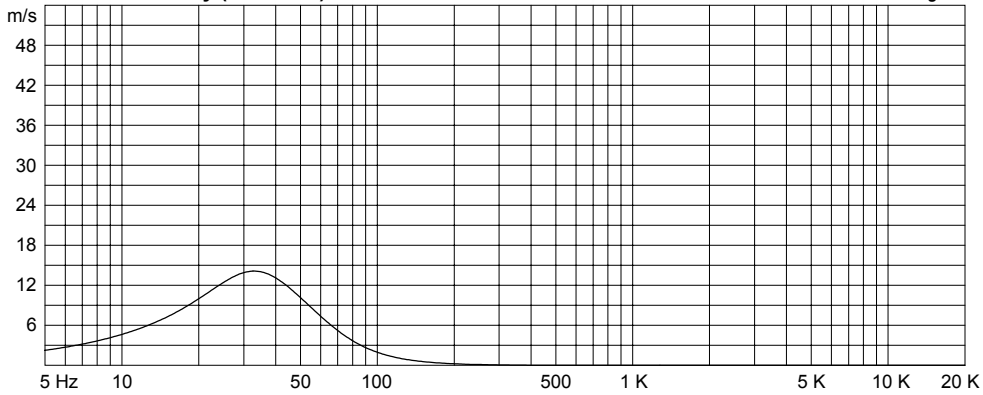
Maximum Electric Input Power (W/Hz) *Eminence Designer*



Cone Displacement (mm/Hz) with 450 watts *Eminence Designer*

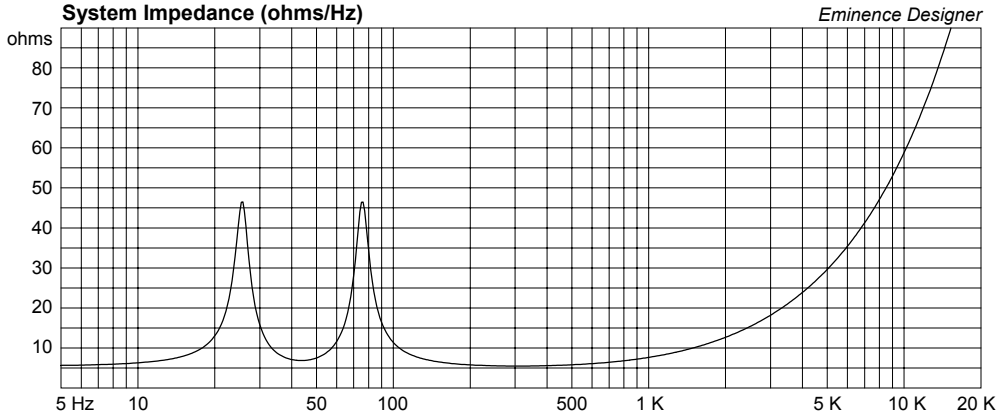


Vent Air Velocity (m/sec/Hz) with 450 watts *Eminence Designer*



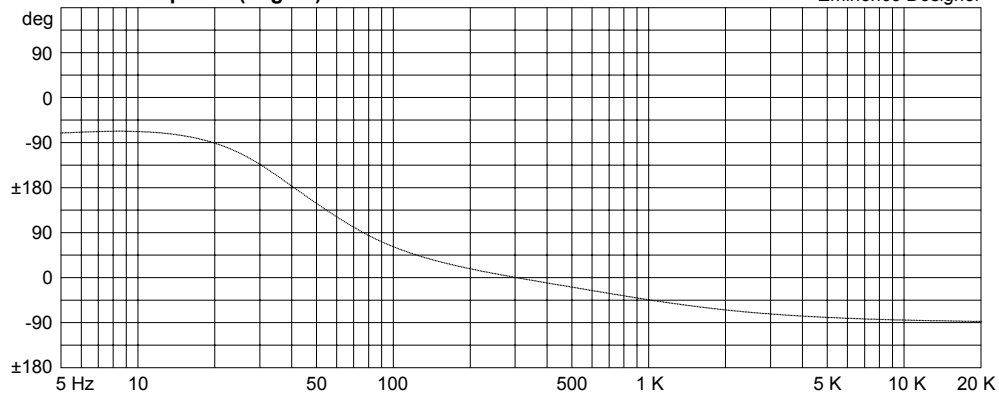
System Impedance (ohms/Hz)

Eminence Designer



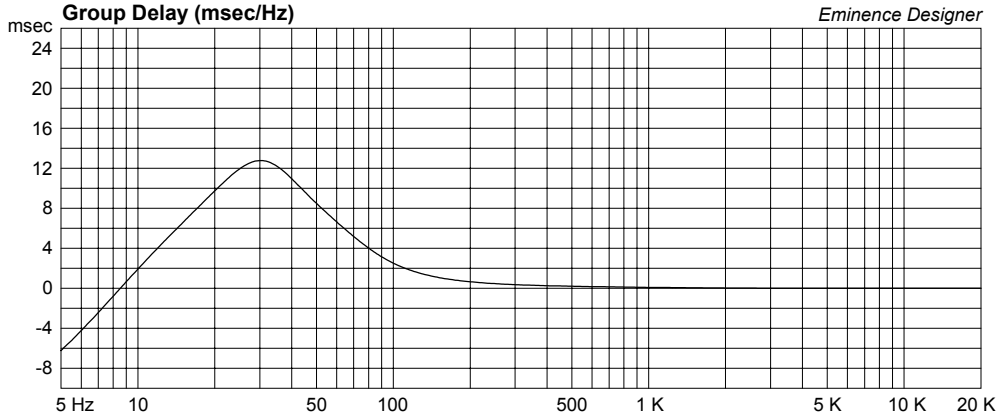
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KappaLite 3015LF Larger PA Subwoofer Cabinet

By Jerry McNutt, Eminence Speaker LLC
Thermally Limited to 450 Watts; F3 of 43 Hz. Use a steep high pass filter set to 35 Hz.

EMINENCE

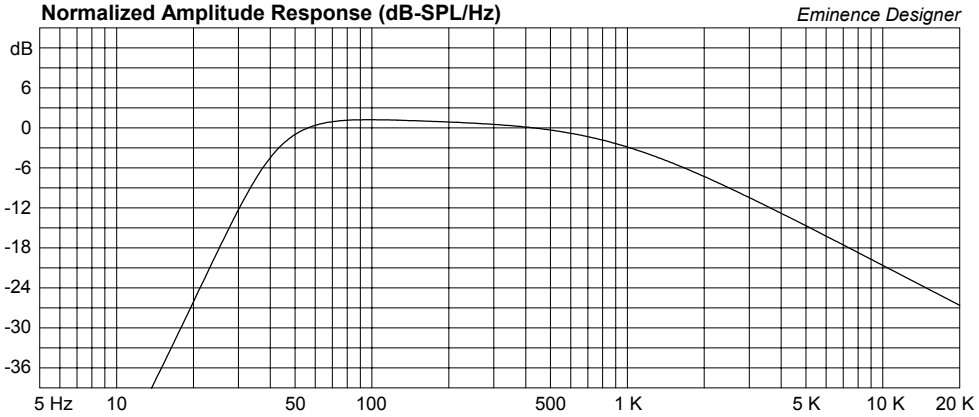
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Cube
--Box Parameters--
Vb = 5.11 cu.ft
V(total) = 5.574 cu.ft
Fb = 44 Hz
QL = 7
F3 = 43.16 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 8.585 in

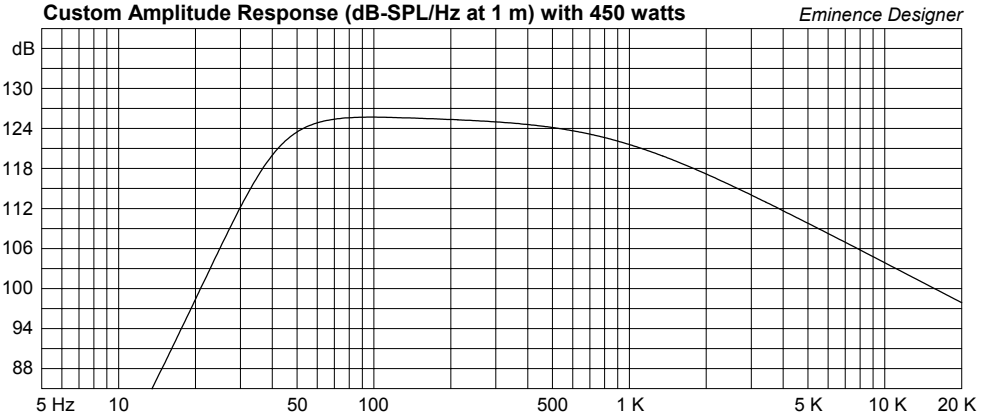
Driver Properties

--Description--
Name: KappaLite 3015LF
Type: Standard one-way driver
Comment: Updated Sept 2009
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 43.65 Hz
Qms = 8.97
Vas = 5.329 cu.ft
Xmax = 0.378 in
Sd = 136.6 sq.in
Qes = 0.48
Re = 5.47 ohms
Le = 0.93 mH
Z = 8 ohms
Pe = 450 watts

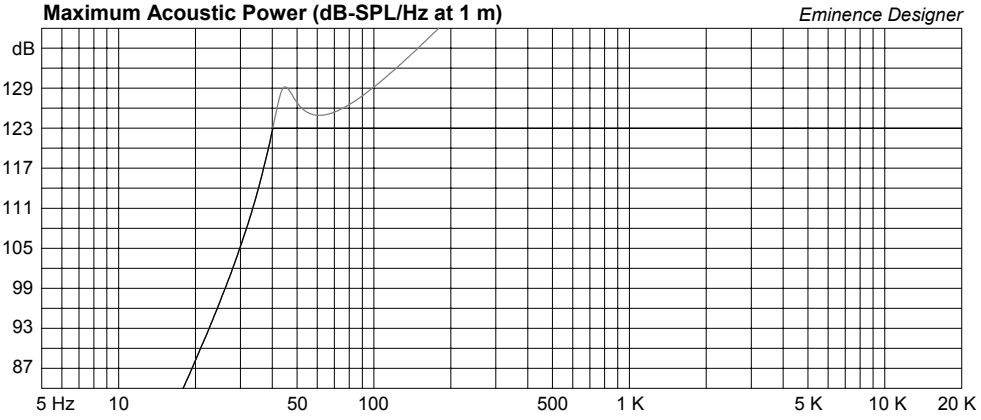
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts *Eminence Designer*

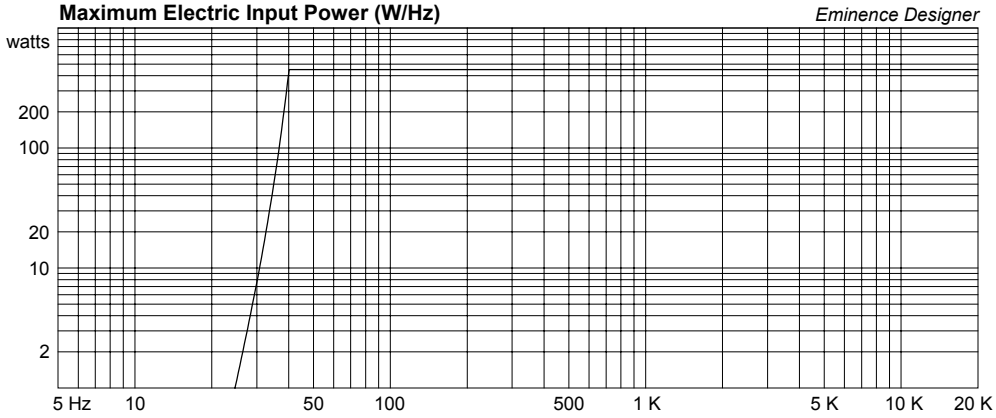


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



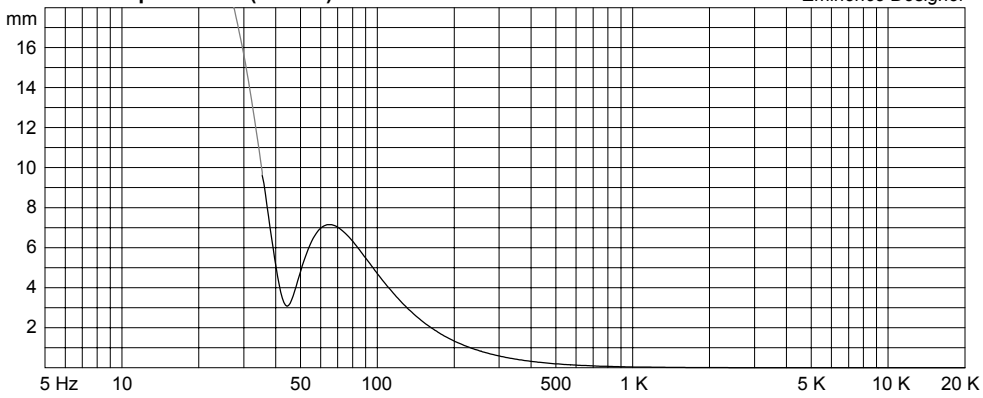
Maximum Electric Input Power (W/Hz)

Eminence Designer



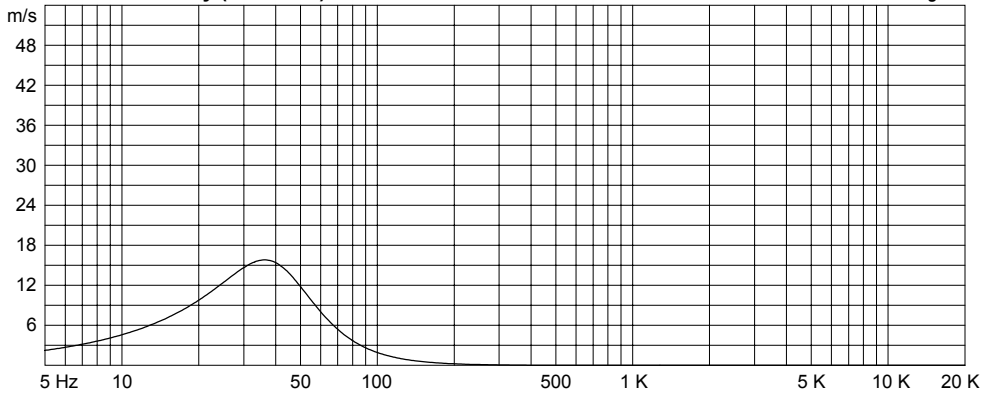
Cone Displacement (mm/Hz) with 450 watts

Eminence Designer



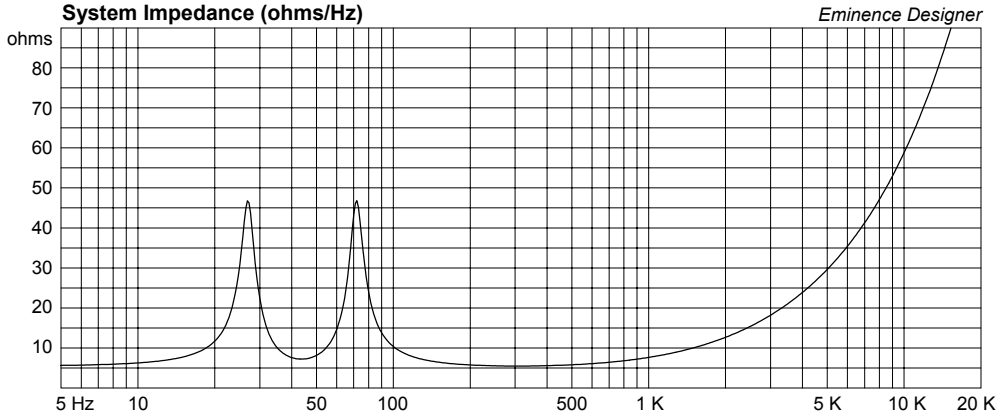
Vent Air Velocity (m/sec/Hz) with 450 watts

Eminence Designer



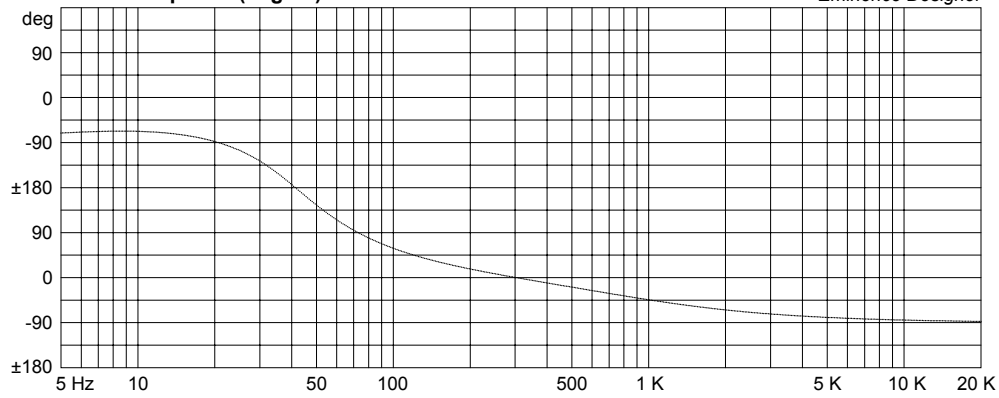
System Impedance (ohms/Hz)

Eminence Designer



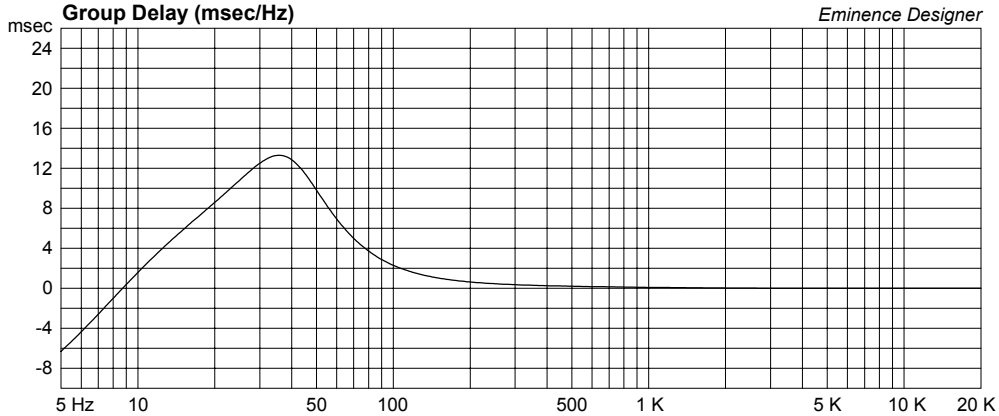
Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer



KappaLite 3015LF Subwoofer Design

By Jerry McNutt, Eminence Speaker LLC
Limited to 400 Watts; F3 of 40 Hz. Use a steep high pass filter set to 30 Hz.

EMINENCE

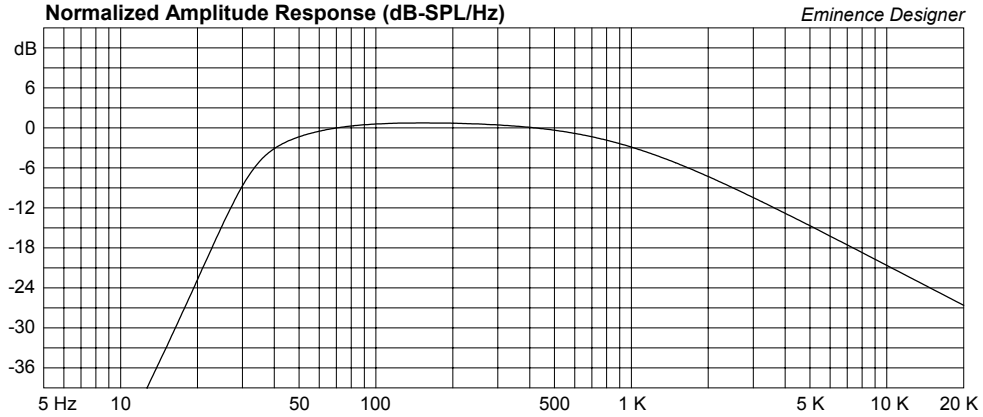
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Cube
--Box Parameters--
Vb = 6.132 cu.ft
V(total) = 6.651 cu.ft
Fb = 38 Hz
QL = 7
F3 = 40.35 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 10.25 in

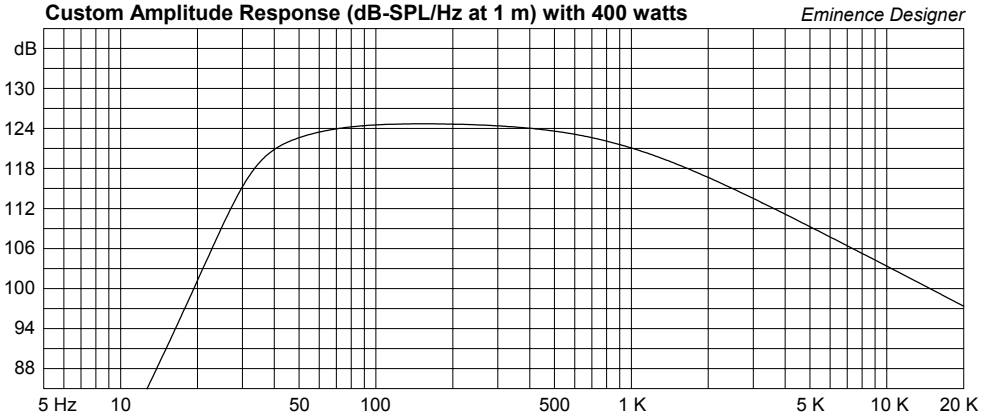
Driver Properties

--Description--
Name: KappaLite 3015LF
Type: Standard one-way driver
Comment: Updated Sept 2009
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 43.65 Hz
Qms = 8.97
Vas = 5.329 cu.ft
Xmax = 0.378 in
Sd = 136.6 sq.in
Qes = 0.48
Re = 5.47 ohms
Le = 0.93 mH
Z = 8 ohms
Pe = 450 watts

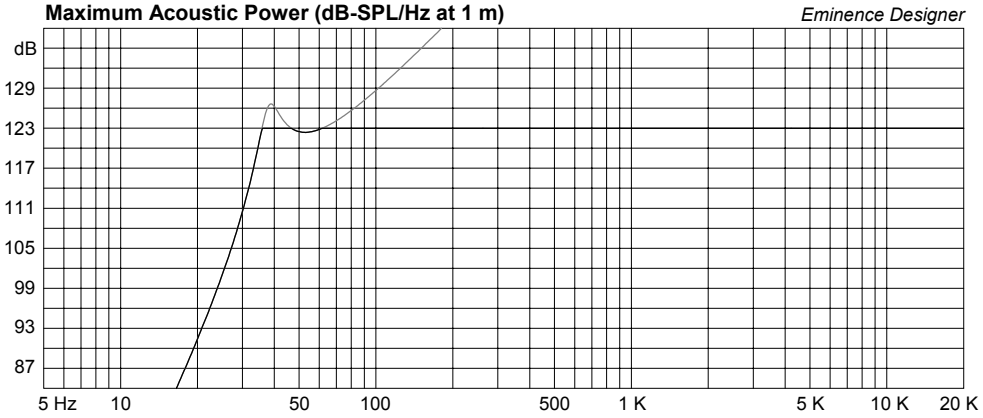
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts *Eminence Designer*

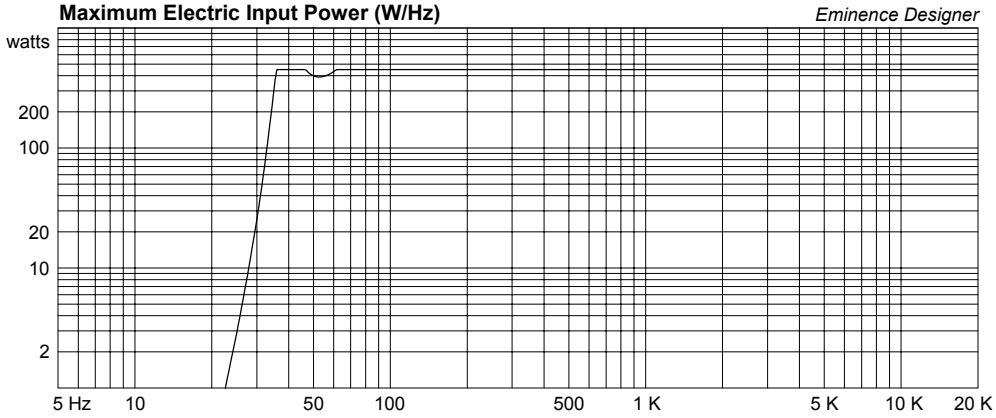


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*

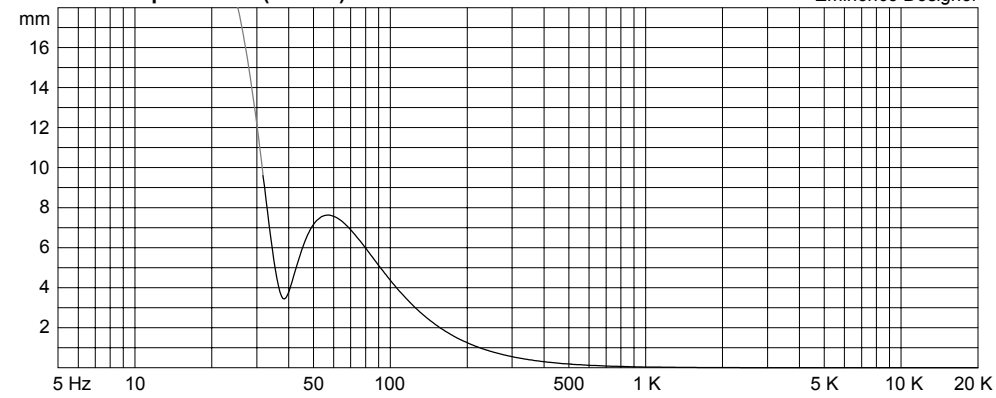


File: KappaLite3015LFLargeAnd LowVentedBoxII400Watts.bb6

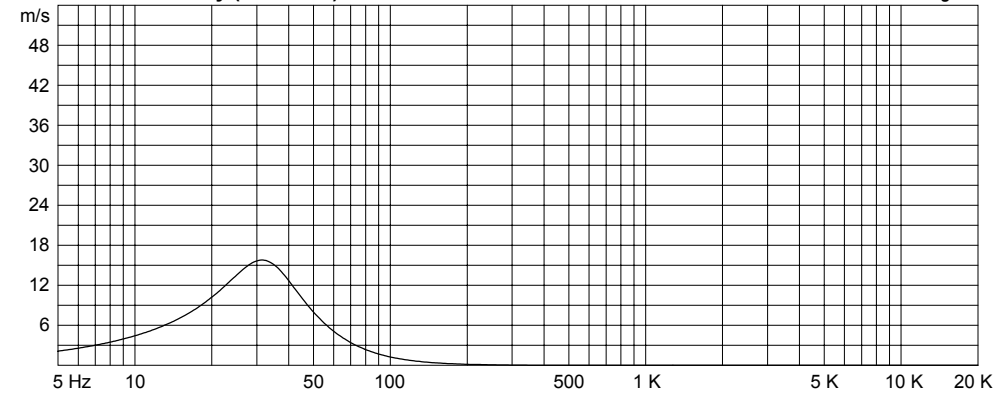
Maximum Electric Input Power (W/Hz) *Eminence Designer*



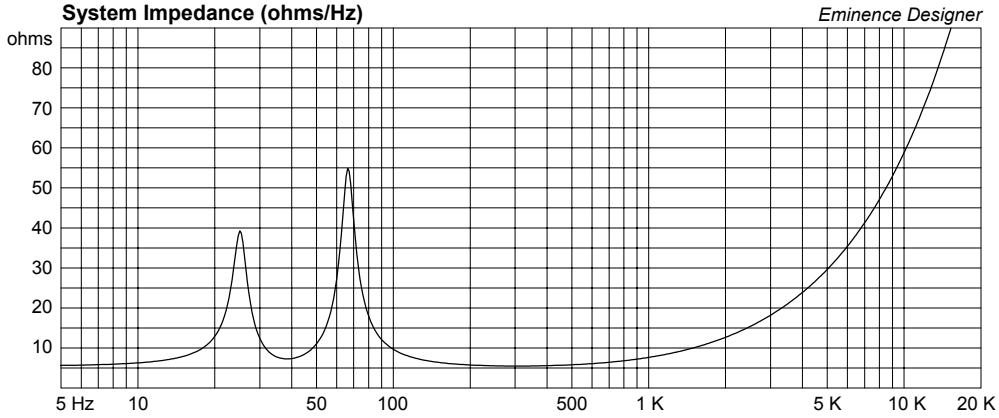
Cone Displacement (mm/Hz) with 400 watts *Eminence Designer*



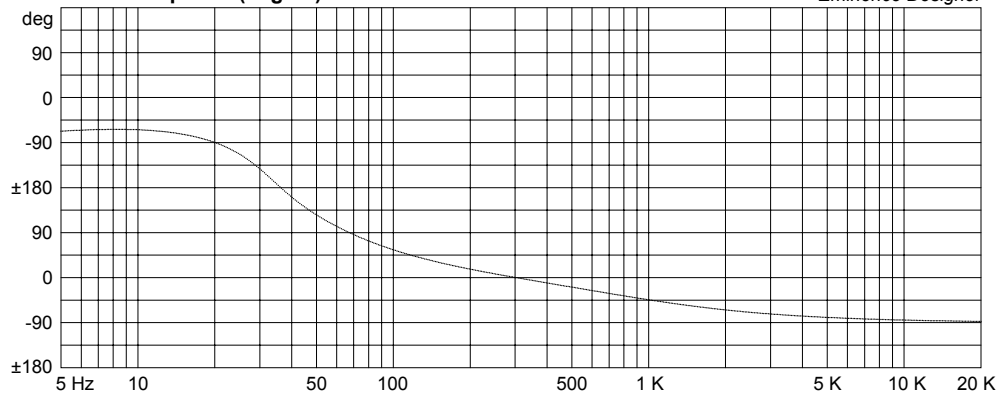
Vent Air Velocity (m/sec/Hz) with 400 watts *Eminence Designer*



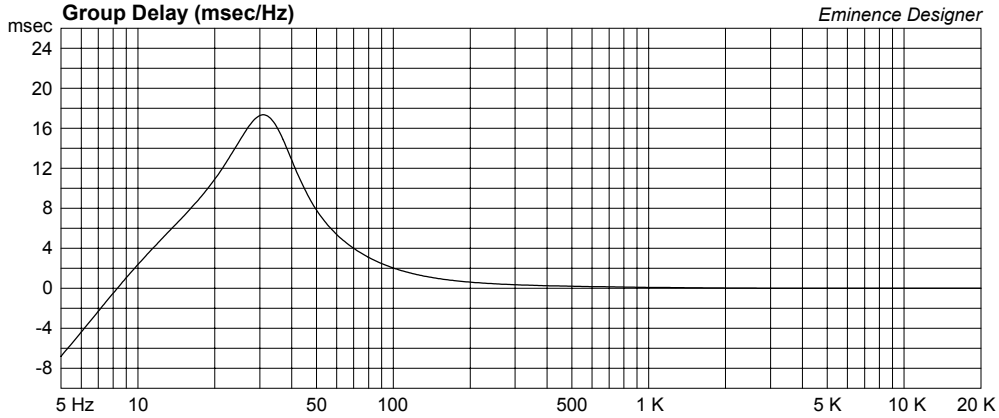
System Impedance (ohms/Hz)



Phase Response (deg/Hz)



Group Delay (msec/Hz)



KappaLite 3015LF Small Hi Pwr PA or Bass Guitar Ca

By Jerry McNutt, Eminence Speaker LLC
Thermally Limited to 450 Watts; F3 of 52 Hz. Use a steep High Pass filter set to 40 Hz.

EMINENCE

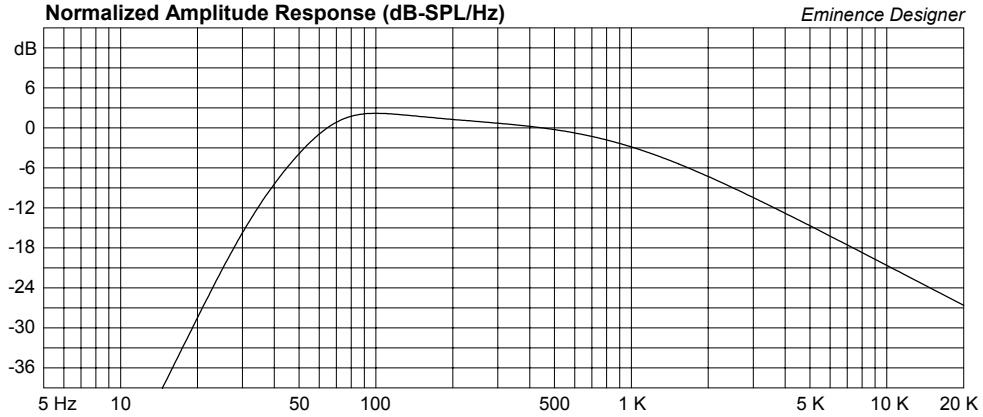
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Cube
--Box Parameters--
Vb = 3.2 cu.ft
V(total) = 3.606 cu.ft
Fb = 50 Hz
QL = 7
F3 = 52.49 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 3.5 in
Lv = 8.534 in

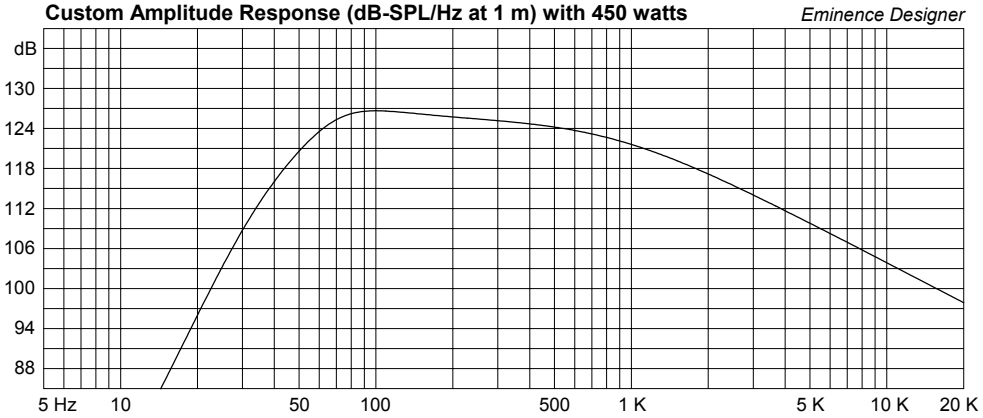
Driver Properties

--Description--
Name: KappaLite 3015LF
Type: Standard one-way driver
Comment: Updated Sept 2009
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 43.65 Hz
Qms = 8.97
Vas = 5.329 cu.ft
Xmax = 0.378 in
Sd = 136.6 sq.in
Qes = 0.48
Re = 5.47 ohms
Le = 0.93 mH
Z = 8 ohms
Pe = 450 watts

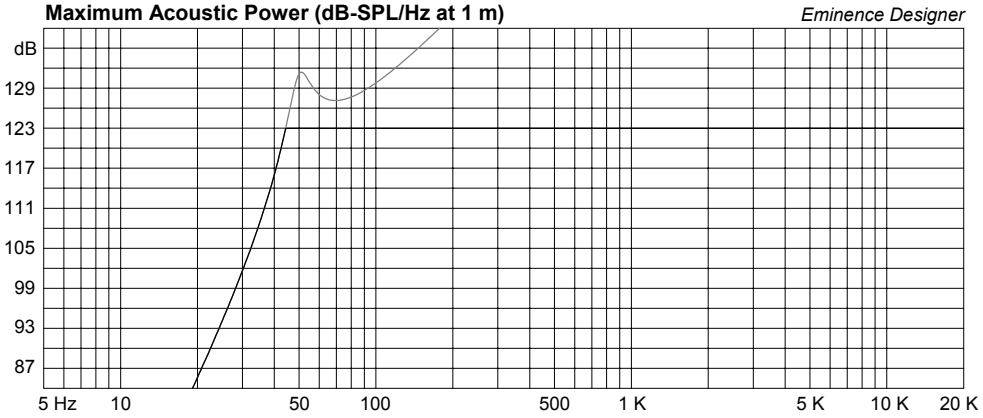
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



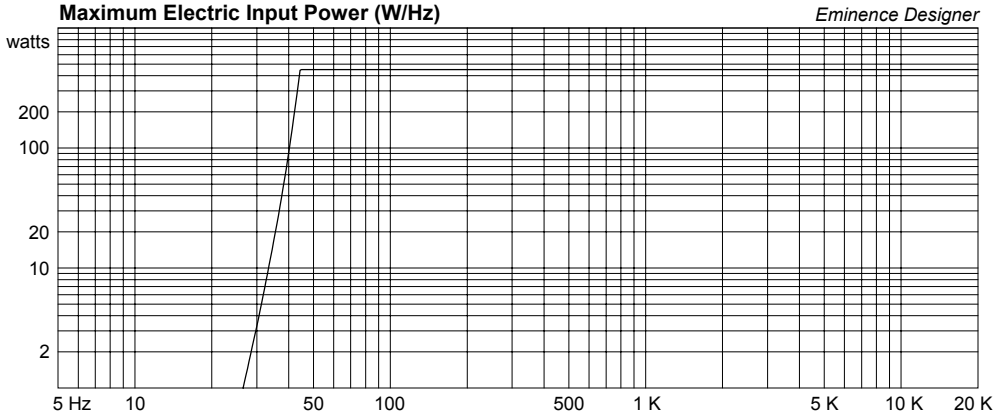
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts *Eminence Designer*



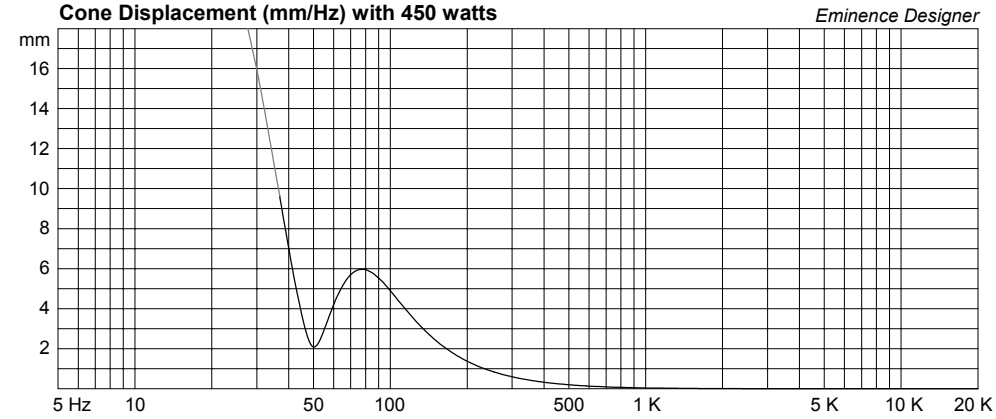
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



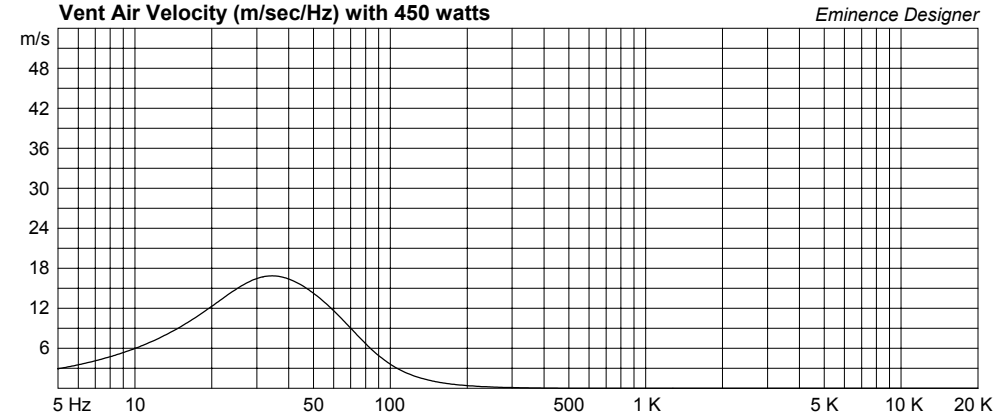
Maximum Electric Input Power (W/Hz) *Eminence Designer*



Cone Displacement (mm/Hz) with 450 watts *Eminence Designer*

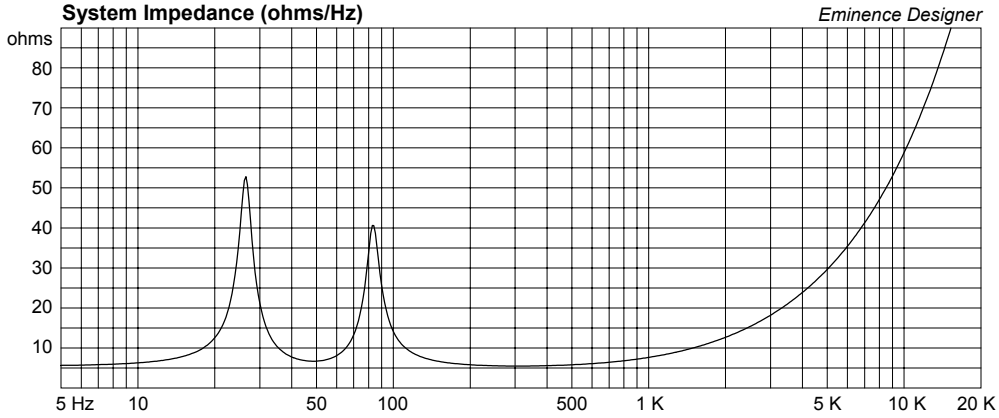


Vent Air Velocity (m/sec/Hz) with 450 watts *Eminence Designer*



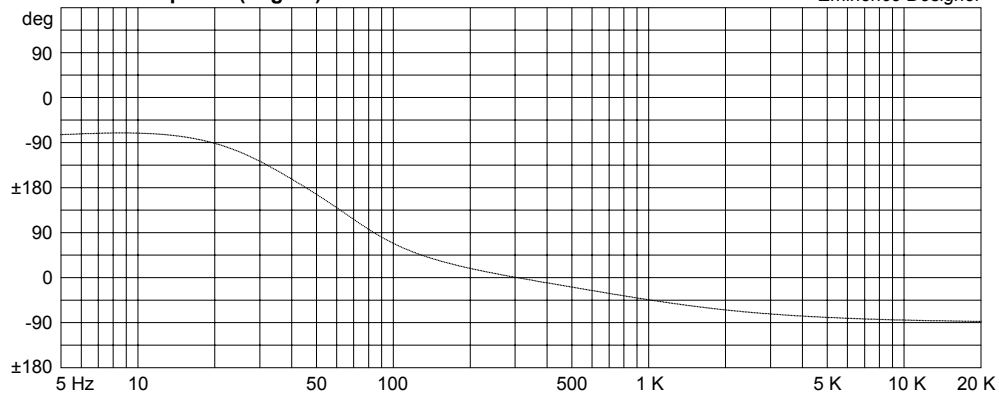
System Impedance (ohms/Hz)

Eminence Designer



Phase Response (deg/Hz)

Eminence Designer



Group Delay (msec/Hz)

Eminence Designer